

wherein the chemical compounds are members of a combinatorial library.

2. (Twice amended) An array of at least two different chemical compounds attached to a support, wherein the array has linear organization; wherein each chemical compound is represented in the array at least twice at discontinuous regions of the array; wherein the chemical compounds are members of a combinatorial library;

and wherein the array is prepared by a method which comprises steps of:

providing a support having reactive functionalities;

subjecting said support to a first set of reagents or reaction conditions, wherein each of said first reagents or reaction conditions cycles with a first specific spatial period along the support, and wherein each individual first reagent or reaction condition in the set is identified as a function of a unique distance or time, so that a first set of compounds is produced simultaneously on the array, each compound within first set being related to all other compounds in the first set as a product of the first set of reagents or reaction conditions, and being separated from other first set compounds by the first specific spatial period; and

subjecting said support to one or more additional set of reagents or reaction conditions, wherein each of said additional reagents or reaction conditions cycles with a second specific spatial period along the support, and wherein each individual reagent or reaction conditions in said one or more additional sets is identified as a second function of unique distance or time, so that at least one additional set of compounds is produced simultaneously on the array, each compound within the additional set being related to all other compounds in the additional set as a product of the additional set of reagents or reaction conditions, and being separated from other additional set compounds by the second specific spatial period, until a desired array of compounds is obtained.

3. (Twice Amended) An array of at least two different chemical compounds attached to a support, wherein the array has linear organization; wherein each chemical compound is represented in the array at least twice at discontinuous regions of the array; wherein the chemical compounds are members of a combinatorial library; and

wherein the array is prepared by a method which comprises the steps of:

- a) providing a support having reactive functional groups,
- b) winding the support around a geometric template,
- c) dividing the surface of the template lengthwise into regions,
- d) subjecting each region to one or more reagents or reaction conditions so as to attach reactive moieties or to modify the functional groups attached directly to the support or comprising reactive moieties, and thereby to simultaneously create a set of compounds on the support in which each compound in a set is related to all other compounds in the set as a product of the reagents or reaction conditions that the region was subjected to; and
- e) repeating steps (b) through (d) until the desired library is obtained.

4. (Amended) The array of claim 3, wherein the reactive moieties attached in step (d) comprise [have] additional functional groups which are masked by protecting groups, and wherein these protecting groups are removed prior to treatment with one or more reagents or reaction conditions.

Remarks

Applicant would like to thank the Examiner for the telephone interview held on November 4, 2002.

As requested by the Examiner, the Specification has been amended to delete all references to embedded hyperlinks and browser-executable code. The Specification has also been amended to include the generic name for KEVLAR[®] where appropriate.

Claims 1-7 and 37-46 are pending in the application and stand rejected. Claims 1-4 have been amended. No new matter is added to the Specification by these changes. Applicant respectfully requests reexamination and reconsideration of the case, as amended. Each of the rejections levied in the Office Action is addressed individually below.

I. Rejection under 35 U.S.C. § 112, first paragraph. Claims 1-7 and 37-46 stand rejected under 35 U.S.C. § 112, first paragraph, for containing new matter. Specifically, in claim